

Title (en)
Surgical access device

Title (de)
Chirurgische Zugangsvorrichtung

Title (fr)
Dispositif d'accès chirurgical

Publication
EP 2168511 A3 20100714 (EN)

Application
EP 09252312 A 20090929

Priority
US 24276508 A 20080930

Abstract (en)
[origin: EP2168511A2] Various devices are provided for allowing multiple surgical instruments to be inserted through a single surgical access device at variable angles of insertion, allowing for ease of manipulation within a patient's body while maintaining insufflation. Safety shields and release mechanisms are also provided for use with various surgical access devices.

IPC 8 full level
A61B 17/34 (2006.01)

CPC (source: EP US)
A61B 1/018 (2013.01 - US); **A61B 17/0218** (2013.01 - US); **A61B 17/3423** (2013.01 - US); **A61B 17/3462** (2013.01 - EP US);
A61B 2017/3447 (2013.01 - EP US); **A61B 2017/3449** (2013.01 - EP US); **A61B 2017/3466** (2013.01 - EP US); **A61B 2505/05** (2013.01 - US)

Citation (search report)
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• [XP] WO 2009035663 A2 20090319 - SYNECOR LLC [US], et al
• [XP] WO 2008149332 A1 20081211 - ATROPOS LTD [IE], et al
• [XI] US 6162196 A 20001219 - HART CHARLES C [US], et al
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US9737335B2; US10405883B2; US10939937B2; US11925385B2; WO2024023652A1; WO2019003051A3; US9226735B2; US10321934B2;
US10610207B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2168511 A2 20100331; EP 2168511 A3 20100714; EP 2168511 B1 20120711; AU 2009222423 A1 20100415; AU 2009222423 B2 20141218;
BR PI0904882 A2 20110315; BR PI0904882 B1 20191105; BR PI0904882 B8 20210622; CA 2680917 A1 20100330; CA 2680917 C 20171017;
CN 101711687 A 20100526; CN 101711687 B 20130807; JP 2010082449 A 20100415; JP 5913778 B2 20160427; KR 101655746 B1 20160908;
KR 20100036991 A 20100408; MX 2009010645 A 20100714; US 10016215 B2 20180710; US 10588661 B2 20200317;
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US 9131835 B2 20150915; US 9687272 B2 20170627

DOCDB simple family (application)
EP 09252312 A 20090929; AU 2009222423 A 20090925; BR PI0904882 A 20090930; CA 2680917 A 20090929; CN 200910174114 A 20090930;
JP 2009224137 A 20090929; KR 20090092194 A 20090929; MX 2009010645 A 20090930; US 201313922957 A 20130620;
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